MINIATURE SOLENOID VALVES



rocker mechanism, fluid isolation hose connections

2/2 NC

2/2 NO

3/2 U



FEATURES

- Valves for medical analysers, biotechnology, gas analysers
- Can be used to control acids and bases, as well as analytical reagents
- Any application where the fluid may not come into contact with metal parts and with the electromagnetic control section of the solenoid valves
- The valves are ideal for controlling aggressive fluids or when high purity is demanded and have easy to flush internal cavities
- They can also be used as a very small internal volume flow-through sampling valve due to rocker technology
- · Hermetic separation of control mechanism and fluid
- · Reduced heat exchange between coil and fluid
- Protected manual operator
- The use of first class materials and thorough valve testing ensure high reliability and a lifetime of at least 1 million cycles
- The solenoid valves satisfy all relevant EC directives



GENERAL

Differential pressure -0,7 to +2 bar (usable in 0,3 bar abs. vacuum) [1 bar =100 kPa]

Maximum viscosity 20 cSt (mm²/s) Response time < 20 ms

Internal volume < 75 µl (connections not included)

fluids (*)	temperature range (TS)	seal materials (*)			
liquids or gases	0°C to + 40°C	EPDM (ethylene-propylene)			

CONSTRUCTION

Body PA12

Stainless steel Internal parts

MATERIALS IN CONTACT WITH FLUID

(*) Ensure that the compatibility of the fluids in contact with the materials is verified

PA12 (transparent), enabling flow of fluid to be seen Cover

Diaphragm-poppets **EPDM**

ELECTRICAL CHARACTERISTICS

Coil insulation class

100 % **Duty cycle**

Two spade terminals 2.8 x 0.5 mm (DIN 46340) Coil

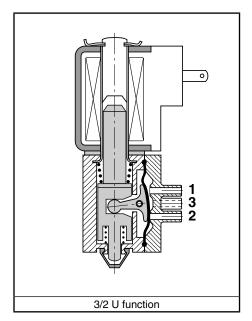
Electrical safety IEC 335

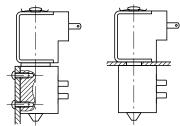
Electrical enclosure protection IP40 (EN60529) Standard voltages DC (=): 12V - 24V

(Other voltages on request)

		power	ratings		operator	roplacor			
	inrush	holo	ling	hot/cold	ambient temperature	replacement coil		tume (1)	
•	~	-	-	=	range (TS)	-	=	type (1)	
	(VA)	(VA)	(W)	(W)	(C°)	-	24 V DC		
-	-	-	-	4/5	-5 to + 40	-	43004663	01	

⁽¹⁾ Refer to the dimensional drawings on the following page.





SPECIFICATIONS

pipe orifice size	flow coefficient		operating pressure differential (bar)			power		catalogue number (protected impulse manual operator)		
	Office Size	Kv			max.	(PS)	(W)		rear mounting	central support
	l KV		min.	gases (*)	liquids (*)	(,		rear mounting	plate mounting	
	(mm)	(m³/h)	(l/min)		=	=	~	=	=	=
2/2 NC	2/2 NC - Normally closed / 2 connections									
(2)	1,5	0,05	0,75	-0,7	2	2	-	5	11000006	11000010P2
2/2 NO - Normally open / 2 connections										
(2)	1,5	0,05	0,75	-0,7	2	2	-	5	11000005P2	11000009
3/2 U - Universal / 3 connections										
(2)	1,5	0,05	0,75	-0,7	2	2	-	5	11000007P2	11000011P2
3/2 U -	3/2 U - Universal / 4 connections									
(2)	1,5	0,05	0,75	-0,7	2	2	-	5	11000008	11000012

Hose connection to ID 1,5 mm flexible tubing.

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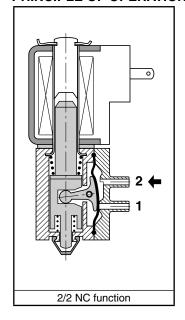
Pneutrol International Limited UK Office 5 Caulside Drive, Antrim, BT41 2DU United Kingdom TEL: +44 (0) 289448 1808 www.valves-direct.com

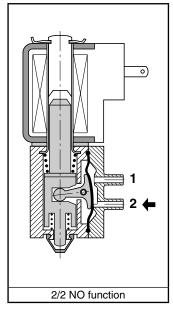
sales@pneutrol.com European Office Unit 6, Saint Anthony's Business Park, Ballymount Road, D22 VW95 TEL: +353 (0) 1 4373653

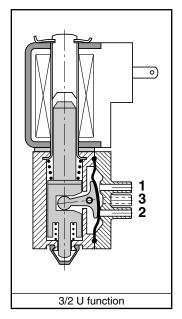
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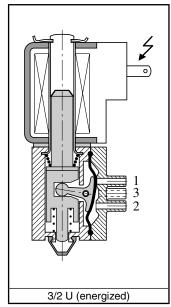


PRINCIPLE OF OPERATION









DIMENSIONS (mm), **WEIGHT** (kg)



3/2 U

(3 connections)



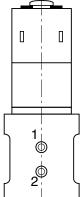
TYPE 01 Prefix "SC" Solenoid DIN 43340

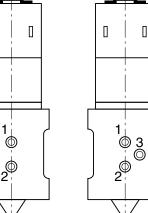


11000005..12 2/2 NC













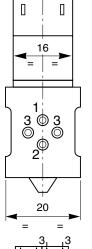
(1) Hose bibs for connection of ID 1,5 mm flexible tubing

(3) Coil with two spade terminals 2,8 x 0,5 (DIN 46340)

Protected impulse type manual operator

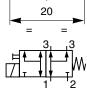


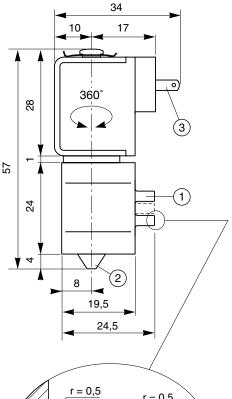


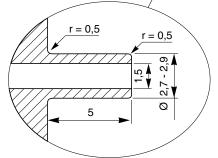


3/2 U

(4 connections)







Details of hose bib

type weight (1) option 0,46 01

prefix

(1) Incl. coil.

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OPTIONS

- Stainless steel support plate for mounting between body and coil for:
 - 1 solenoid valve, catalogue number **88211001**
 - 2 solenoid valves, catalogue number 88211002
 - 3 solenoid valves, catalogue number 88211003
- FPM (fluoroelastomer) diaphragm

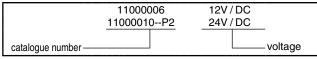
- 4 solenoid valves, catalogue number 88211004
- 5 solenoid valves, catalogue number 88211005

For more, contact us

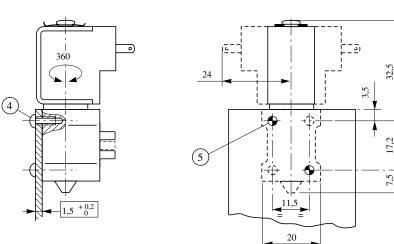
INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Rear or control support plate mounting possible (see below)
- Hose connection of flexible tubing Ø 1.5 mm ID
- Compact size and simple tubing (see following page)
- · Replacement coils are available
- Installation/maintenance instructions are included with each valve

ORDERING EXAMPLES:

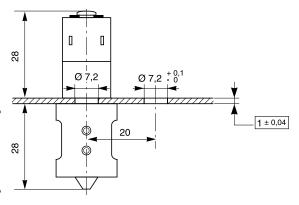


DIMENSIONS (mm), WEIGHT (kg) REAR MOUNTING

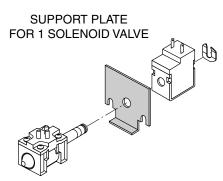


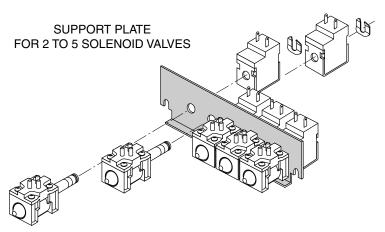
- 2 self thread cutting «Torx» screws K 22 x 6 - A2 stainless steel (screws delivered)
 - use these screws only
 - use plate with correct thickness
 - max. torque: 0,3 Nm
- (5) Two mounting holes 2.5 mm dia. Solenoid valve body has four holes for mounting purpose

SUPPORT PLATE MOUNTING (For solenoid valve of corresponding type)



- . The panel must be of non-magnetic material.
- To fit to panel, remove the clip and the solenoid valve coil and install as indicated below.





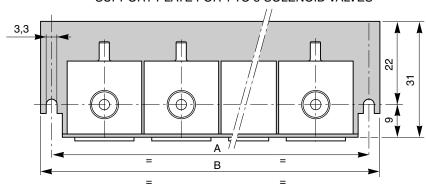
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DIMENSIONS (mm), **WEIGHT** (kg)



SUPPORT PLATE FOR 1 TO 5 SOLENOID VALVES



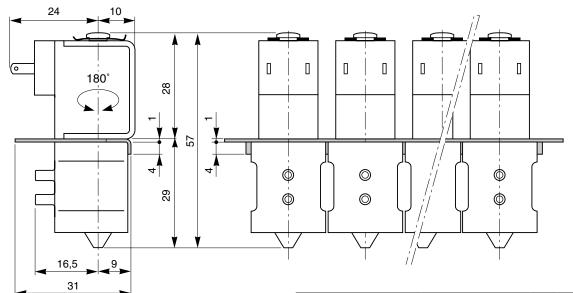
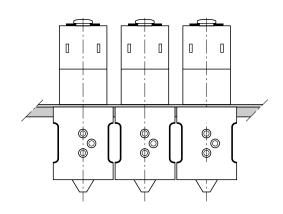


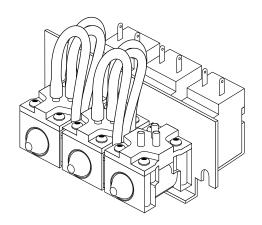
plate for «n» solenoid valves	plate catalogue number	A	В	weight (1)
1	88211001	31	40	0,1
2	88211002	51	60	0,15
3	88211003	72	80	0,2
4	88211004	92	100	0,25
5	88211005	113	121	0,3

(1) Plate only.

SIMPLE TUBING

When valves mounted side by side on a support plate, an area is left open so that tubes pass between valve bodies





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